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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------------|-----------------|----------------------|---------------------|------------------|
| 09/832,936 | 04/12/2001 | Gerald L. Dawson | 023459-00043 | 5246 |
| 7: | 590 02/27/2004 | EXAMINER | | |
| ARENT FOX | KINTNER PLOTKIN | CUEVAS, PEDRO J | | |
| Suite 600 | | | ART UNIT | PAPER NUMBER |
| 1050 Connecticut Avenue, N.W. | | | ARTONI | TATER NOMBER |
| Washington D | C 20036-5330 | | 2834 | |

DATE MAILED: 02/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental Notice of Allowability

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|-----------------|---------------|--|--|
| Application No. | Applicant(s) | | |
| 09/832,936 | DAWSON ET AL. | | |
| Examiner | Art Unit | | |
| Pedro J. Cuevas | 2834 | | |

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|--|---|--|---------------------------|--|--|--|--|--|
| | Pedro J. Cuevas | 2834 | | | | | | |
| The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI | (OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to | plication. If not include will be mailed in due | ed course, THIS | | | | | |
| 1. This communication is responsive to priority acknowledger | ment request filed on Sentember 22 | 2003 | | | | | | |
| 2. \(\times \) The allowed claim(s) is/are 4-6. | nem request lieu on September 22, | <u> 2000</u> . | | | | | | |
| 3. The drawings filed on 12 April 2001 are accepted by the E. | xaminer. | | | | | | | |
| 4. Acknowledgment is made of a claim for foreign priority und | | | | | | | | |
| a) ☐ All b) ☐ Some* c) ☐ None of the: | | | | | | | | |
| Certified copies of the priority documents have | been received. | | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this national stage application from the | | | | | | | | |
| International Bureau (PCT Rule 17.2(a)). | | | | | | | | |
| * Certified copies not received: | | | | | | | | |
| 5. Acknowledgment is made of a claim for domestic priority up | 5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). | | | | | | | |
| (a) The translation of the foreign language provisional a | pplication has been received. | | | | | | | |
| 6. Acknowledgment is made of a claim for domestic priority un | nder 35 U.S.C. §§ 120 and/or 121. | | | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7. A SUBSTITUTE OATH OR DECLARATION must be subm | this application. THIS THREE-MOI | NTH PERIOD IS NOT | EXTENDABLE. | | | | | |
| INFORMAL PATENT APPLICATION (PTO-152) which gives reas | | | NOTICE OF | | | | | |
| 0. 🗆 | | | | | | | | |
| 8. CORRECTED DRAWINGS must be submitted. | can's Botont Proving Boview (BTO | OAR) ottochod | | | | | | |
| | (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached | | | | | | | |
| 1) hereto or 2) to Paper No | | | | | | | | |
| (b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. | | | | | | | | |
| (c) including changes required by the attached Examiner | s Amendment / Comment or in the t | Juice action of Paper | NO | | | | | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. | .84(c)) should be written on the drawii | ngs in the front (not the | back) of | | | | | |
| 9. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT FOR T | | | Note the | | | | | |
| Attachment(s) | | | | | | | | |
| 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material | 4∏ Interview Summ 6∏ Examiner's Ame | al Patent Application (ary (PTO-413), Paper Indment/Comment Indment of Reasons for a | No | | | | | |
| | | | | | | | | |

Art Unit: 2834

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 4-6 are allowed.
- 2. The following is an examiner's statement of reasons for allowance.

Bowcott clearly teaches the construction of a starter motor comprising:

a case;

a rotor assembly, the rotor assembly residing inside the case, the rotor supported by the case for rotary;

means for linearly translating a rotary pinion with respect to the case; means for rotating the rotor assembly with respect to the case; and a method for operating an electric motor comprising:

restraining the rotation of the rotor assembly when the rotor assembly is in a first position;

energizing a translate coil, the energized coil interacting with a rotor assembly to linearly move the rotor assembly; and

energizing a rotation coil, said energized rotation coil interacting with the rotor assembly to rotate the rotor assembly.

Shiotsuki et al. teach the construction of a stepping motor having at least one set of asymmetric stator pole teeth for the purpose of providing pole teeth, which are shifted from the center between the pole teeth of the inner yoke in a specific direction.

The prior art of record, taken alone or in combination, fails to teach the construction of: an electric motor as described on independent claims 4 and 6, having:

a rotor assembly residing inside a case, the rotor supported by the case for both rotary and linear motion; and

means for preventing rotation of the rotor assembly until the translating means linearly translate the rotor assembly, and a method for operating an electric motor as described on independent claim 5,

comprising the steps of:

restraining the rotation of a rotor assembly when the rotor assembly is in a first position;

energizing a translate coil to linearly move the rotor assembly to a second position where the rotor assembly is free to rotate; and

energizing a rotation coil to rotate the rotor assembly.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

Application/Control Number: 09/832,936 Page 4

Art Unit: 2834

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas February 19, 2004 BURTON S. MULLINS PRIMARY EXAMINER